

AMENDMENTS TO THE CLAIMS

Please amend claims 4, 5, 12, and 13, and cancel claims 1-3 and 6-11 without prejudice or disclaimer, as follows.

Listing of Claims

1-3. (CANCELED)

4. (CURRENTLY AMENDED) ~~The magnification loupe of claim 3,~~ A magnification loupe carried by a user wearable device, comprising:

a housing having a first end with a first aperture for supporting an eyepiece lens,
and a second end with a second aperture for supporting an objective lens;

an eyepiece lens disposed in said first end of said housing; and

an objective lens disposed in said second end of said housing;

said objective lens having a non-circular shape, wherein at least two oppositely disposed arcuate first peripheral edges are defined by a first radius extending from a first center, and wherein at least two oppositely disposed arcuate second peripheral edges are defined by at least one second radius extending from at least a second center not coincident with said first center, said second radius having a length different from said first radius;

said eyepiece lens comprising a single lens element;

said objective lens comprising two lens elements;

wherein said eyepiece lens and said objective lens are constructed and arranged according to the following parameters:

Element	Glass	$[[h]]\eta_d$	$[[n]]\nu_d$	Radius	Thickness	Maximum Diameter	Sep.
I	Schott NSK5	1.589	61.3	$R_1 = \infty$ $R_2 = \infty$	2.2	12.0	
II	Schott NBK7	1.517	64.2	$R_3=36.49$ $R_4=18.48$	1.5	12.0	$S_1=0.6$
III	Schott NSF56	1.805	25.4	$R_5=85.68$ $R_6=39.71$	1.6	$D_1=22.24$ $D_2=23.60$	$S_2=14.46$
IV	Schott NBK7	1.517	64.2	$R_7=39.71$ $R_8=21.55$	6.65	$D_3=23.60$ $D_4=23.60$	

wherein the radius, thickness, and separation dimensions are given in millimeters;

Roman numerals identify the lens elements in their respective order from [[the]] an eyepoint side to [[the]] an object side and element I is a representative correction lens; $[[h]]\eta_d$ represents the refractive index of each element; $[[n]]\nu_d$ is the abbe dispersion number; $[[R_1, R_2, \text{etc.}]]$ R_1 - R_8 represent the radii of [[the]] respective refractive surfaces in order, from the eyepoint side to the object side; $[[D_1, \text{and } D_2, \text{etc.}]]$ D_1 - D_4 represent the maximum clear lens aperture diameters of [[the]] parent lens elements; and S_1, S_2 represent the air space between the elements, measured along an optical centerline.

5. (CURRENTLY AMENDED) ~~The magnification loupe of claim 3,~~ A magnification loupe carried by a user wearable device, comprising:

a housing having a first end with a first aperture for supporting an eyepiece lens,
and a second end with a second aperture for supporting an objective lens;

an eyepiece lens disposed in said first end of said housing; and

an objective lens disposed in said second end of said housing;

said objective lens having a non-circular shape, wherein at least two oppositely disposed arcuate first peripheral edges are defined by a first radius extending from a first center, and wherein at least two oppositely disposed arcuate second peripheral edges are defined by at least one second radius extending from at least a second center not coincident with said first center, said second radius having a length different from said first radius;

said eyepiece lens comprising a single lens element;

said objective lens comprising two lens elements;

wherein said eyepiece lens and said objective lens are constructed and arranged according to the following parameters:

Element	Glass	$[[h]]n_d$	$[[n]]v_d$	Radius	Thickness	Maximum Diameter	Sep.
I	Schott NSK5	1.589	61.3	$R_1=98.19$ $R_2=98.19$	3.0	25.4	
II	Schott NBALF4	1.580	53.9	$R_3=52.10$ $R_4=20.16$	1.5	$D_1=13.00$ $D_2=13.25$	$S_1=4.1$
III	O'Hara STIH23	1.785	26.3	$R_5=85.68$ $R_6=43.17$	1.8	26.15	$S_2=13.59$
IV	Schott NBK7	1.517	64.2	$R_7=43.17$ $R_8=22.39$	7.6	26.15	

wherein the radius, thickness, and separation dimensions are given in millimeters;

Roman numerals identify the lens elements in their respective order from [[the]] an eyepoint side to [[the]] an object side and element I is a representative lens of the user wearable device; $[[h]]n_d$ represents the refractive index of each element; $[[n]]v_d$ is the abbe dispersion number; $[[R_1, R_2, \text{etc.}]]$ R_1 - R_8 represent the radii of [[the]] respective refractive surfaces in order, from the eyepoint side to the object side; $D_1[[,]]$ and $D_2[[,]]$

represent the maximum clear lens aperture diameters of [[the]] parent lens elements;
and S_1 , S_2 represent the air space between the elements, measured along an optical centerline.

6-11. (CANCELED)

12. (CURRENTLY AMENDED) A magnification loupe carried by a user wearable device, comprising:

a housing having a first end with a first aperture for supporting an eyepiece lens, and a second end with a second aperture for supporting an objective lens;

a single element eyepiece lens disposed in said first end of said housing; and

a two element objective lens disposed in said second end of said housing;

said eyepiece lens and said objective lens constructed and arranged according to the following parameters:

Element	Glass	$[[h]]n_d$	$[[n]]v_d$	Radius	Thickness	Maximum Diameter	Sep.
I	Schott NSK5	1.589	61.3	$R_1 = \infty$ $R_2 = \infty$	2.2	12.0	
II	Schott NBK7	1.517	64.2	$R_3 = 36.49$ $R_4 = 18.48$	1.5	12.0	$S_1 = 0.6$
III	Schott NSF56	1.805	25.4	$R_5 = 85.68$ $R_6 = 39.71$	1.6	$D_1 = 22.24$ $D_2 = 23.60$	$S_2 = 14.46$
IV	Schott NBK7	1.517	64.2	$R_7 = 39.71$ $R_8 = 21.55$	6.65	$D_3 = 23.60$ $D_4 = 23.60$	

wherein the radius, thickness, and separation dimensions are given in millimeters;

Roman numerals identify the lens elements in their respective order from [[the]] an

eyepoint side to ~~[[the]]~~ an object side and element I is a representative correction lens; ~~[[h]]~~ n_d represents the refractive index of each element; ~~[[n]]~~ v_d is the abbe dispersion number; ~~[[R₁, R₂, etc.]]~~ R₁-R₈ represent the radii of ~~[[the]]~~ respective refractive surfaces in order, from the eyepoint side to the object side; ~~[[D₁ and D₂, etc.]]~~ D₁-D₄ represent the maximum clear lens aperture diameters of ~~[[the]]~~ parent lens elements; and S₁, S₂ represent the air space between the elements, measured along an optical centerline.

13. (CURRENTLY AMENDED) A magnification loupe carried by a user wearable device, comprising:

a housing having a first end with a first aperture for supporting an eyepiece lens, and a second end with a second aperture for supporting an objective lens;

a single element eyepiece lens disposed in said first end of said housing; and

a two element objective lens disposed in said second end of said housing;

said eyepiece lens and said objective lens constructed and arranged according to the following parameters:

Element	Glass	[[h]] n_d	[[n]] v_d	Radius	Thickness	Maximum Diameter	Sep.
I	Schott NSK5	1.589	61.3	R ₁ =98.19 R ₂ =98.19	3.0	25.4	
II	Schott NBALF4	1.580	53.9	R ₃ =52.10 R ₄ =20.16	1.5	D ₁ =13.00 D ₂ =13.25	S ₁ =4.1
III	O'Hara STIH23	1.785	26.3	R ₅ =85.68 R ₆ =43.17	1.8	26.15	S ₂ =13.59
IV	Schott NBK7	1.517	64.2	R ₇ =43.17 R ₈ =22.39	7.6	26.15	

wherein the radius, thickness, and separation dimensions are given in millimeters;

Roman numerals identify the lens elements in their respective order from ~~[[the]]~~ an

eyepoint side to an object side; n_d represents the refractive index of each element; v_d is the abbe dispersion number; $R_1, R_2, \text{ etc.}$ R_1-R_8 represent the radii of respective refractive surfaces in order, from the eyepoint side to the object side and element I is a representative lens of the user wearable device; D_1 and D_2 represent the maximum clear lens aperture diameters of parent lens elements; and S_1, S_2 represent the air space between the elements, measured along an optical centerline.